2 December 1974

MEMORANDUM FOR: Chief, Branch D

SUBJECT : Feasibility Study for the Automation of Commo
Records Control Schedule (22400AR)
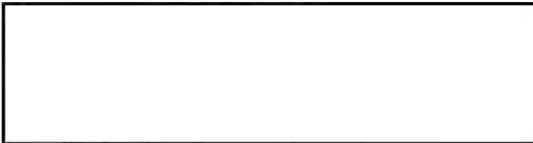

Attached is a copy of the Feasibility Study for the Auto-
mation of Commo Records Control Schedule (22400AR).

> OJCS/AD/D
> IBM

STATINTL

STATINTL

Approved by:

Chief, Branch D/AD

FEASIBILITY STUDY FOR 22400AR

AUTOMATION OF COMMO RECORDS CONTROL SCHEDULE

I. INTRODUCTION

Branch D has received the 930 form for "Automation of OC Records Control Schedule" (PRISM 22400AR). The 930 was submitted by [   ] Director of Communications. The OC ADP Systems Administrator is [   ]

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II. STATEMENT OF PROBLEM

The OC group wishes to automate their library of records. These records refer to files that are held by the OC group. These files could be either "active" or "inactive". Currently there are about 20,000 inactive files and about 75,000 active files. They wish to obtain reports about these files (5 reports on inactive files and 4 reports on the active files).

The OC group has also asked for a "KWIC" index of both the active and inactive files, with a "kill" list of minor words.

It was also requested that an "on-line" querring capability be available to reference an inverted KWIC index.

III. PROBLEM SOLUTIONS

After discussion with the OC group it was learned that an "on-line" information retrieval system would not be needed. It was agreed that overnight turnaround would be acceptable. With this fact and the size of the files, the GIMS-II system was ruled out of consideration.

The "Query" system developed within Branch D was considered next. It can fulfill the information retrieval part of the problem, along with all of the reporting requirements. It would also give the user the Boolean logic searches of the data bases. The USC's "QUICK" would fill the requirements of the "KWIC" index in a batch environment.

Using "QUERY" and "QUICK", the only module left to generate would be a file maintenance module. This program would be able to add, delete, and change records. It should also have the capability to transfer records between the active

25X1

and inactive data bases. It should have the capability
to make global changes on the data bases. This would
mean that when a group is renamed, for example, the entire
data base would reflect the new name on all records that
refer to the group.

IV. PROPOSED SCHEDULE

If the proposed solution is adopted, the following schedule
could be implemented, from the receipt of data.

Query system operational - 1 week

Quick listing produced   - 2 weeks

The following schedule is for the file maintenance module.

Systems analysis   - 2 weeks

Coding   - 3 weeks

Program modifications   - 3 weeks

Testing   - 3 weeks

User testing   - 2 weeks

V. COSTS

A. Manpower - Development

220
x17 dollars/man hour
$3,740

B. Computer - Development

1. S360/67 - 1 hour CPU
2000 dollars/CPU hour
$2,000

2. S/360/195 - 30 minutes CPU
3000 dollars/CPU hour
$1,500

C. Total costs - $7,240

VI. DELIVERABLES

A. Program modules - Query, Quick, File Maintenance

B. Necessary JCL to drive the system.

C. User's Guides for Query and Quick.